

FIG. 1

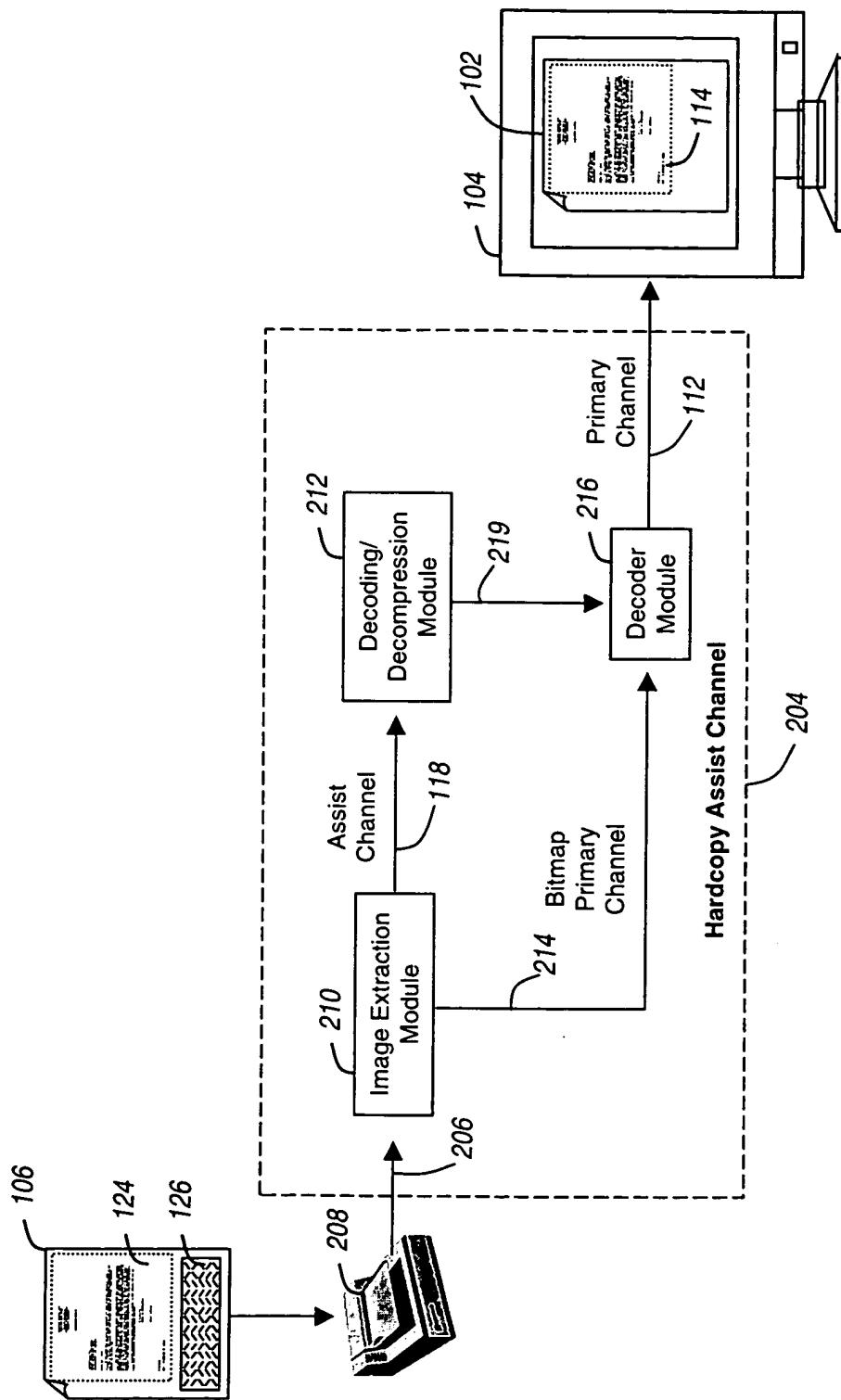


FIG. 2

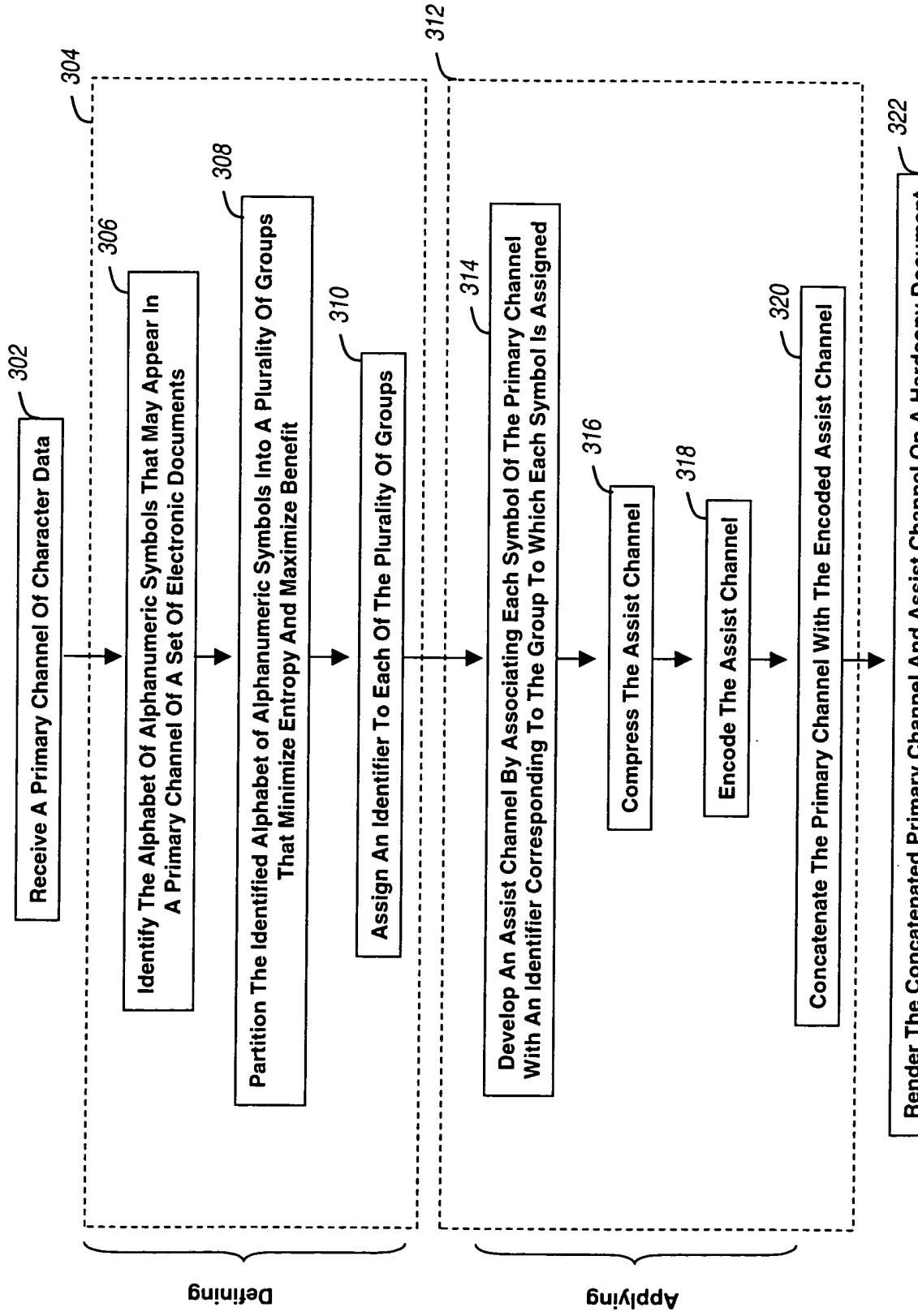
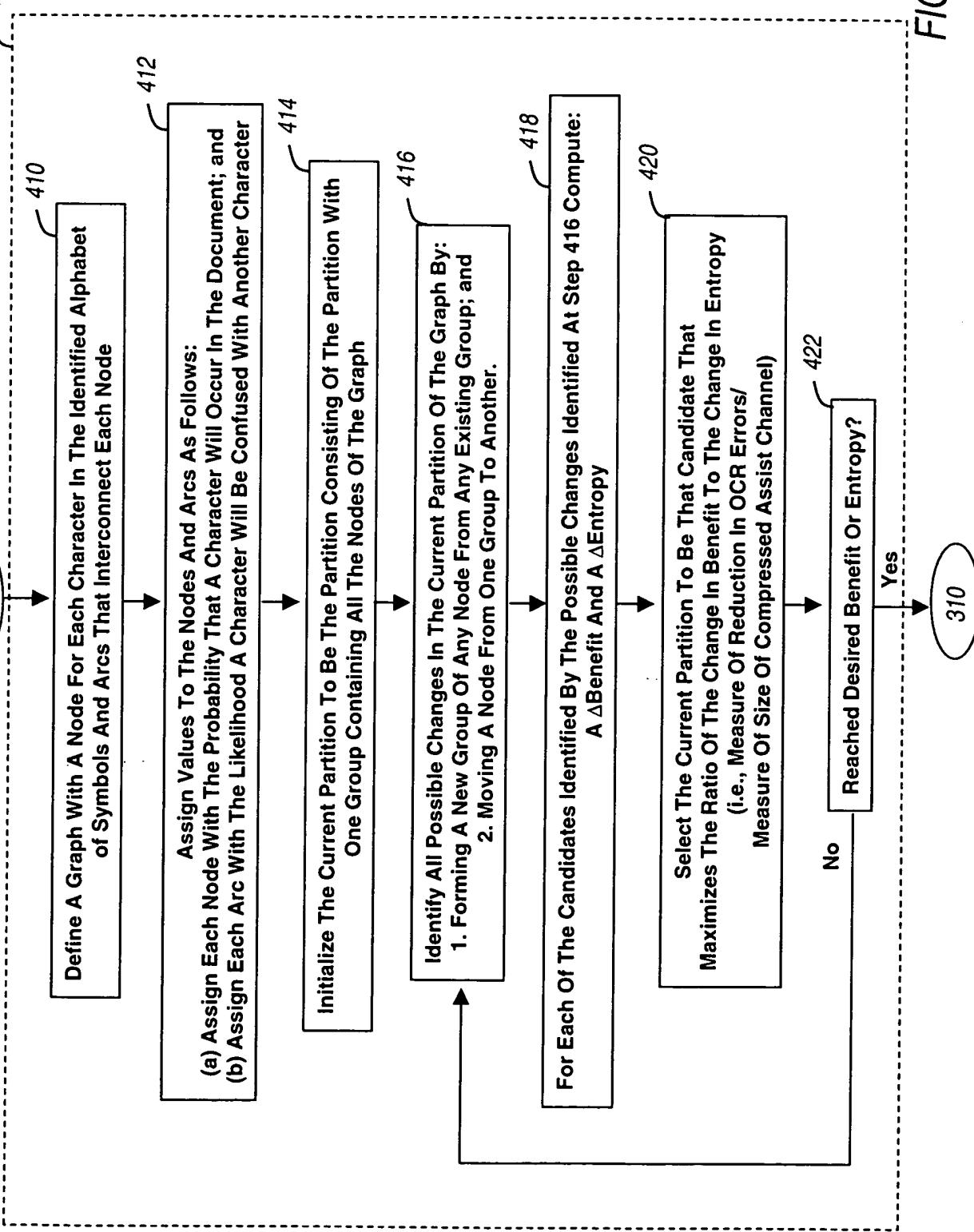


FIG. 3

308

306



F/G. 4

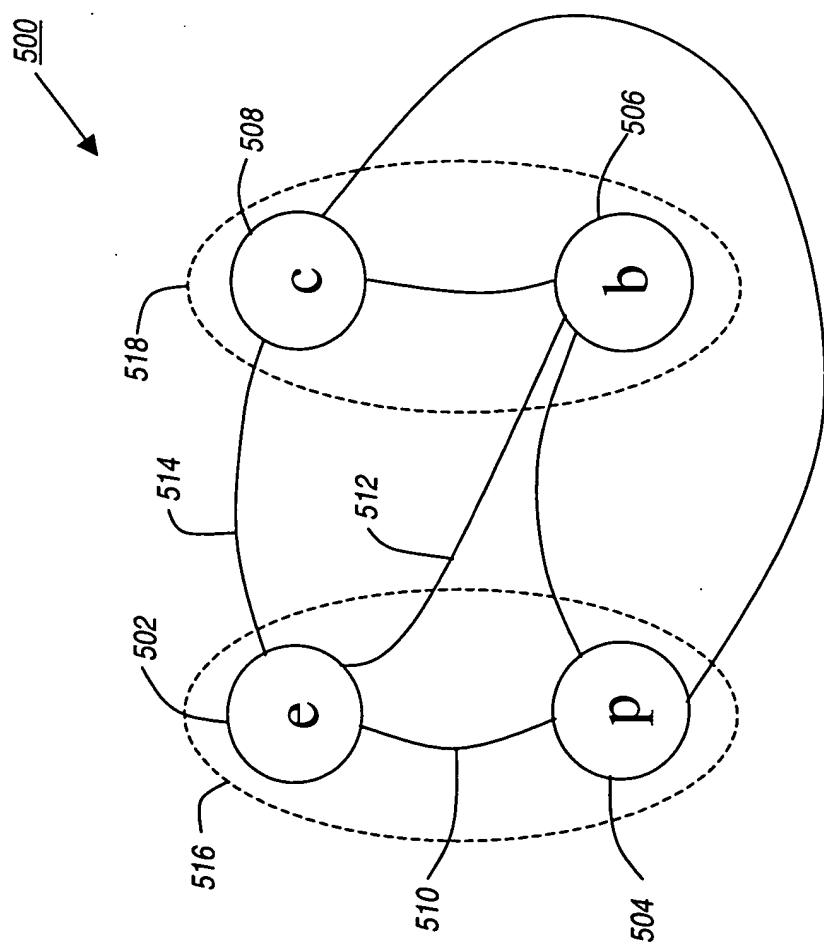


FIG. 5

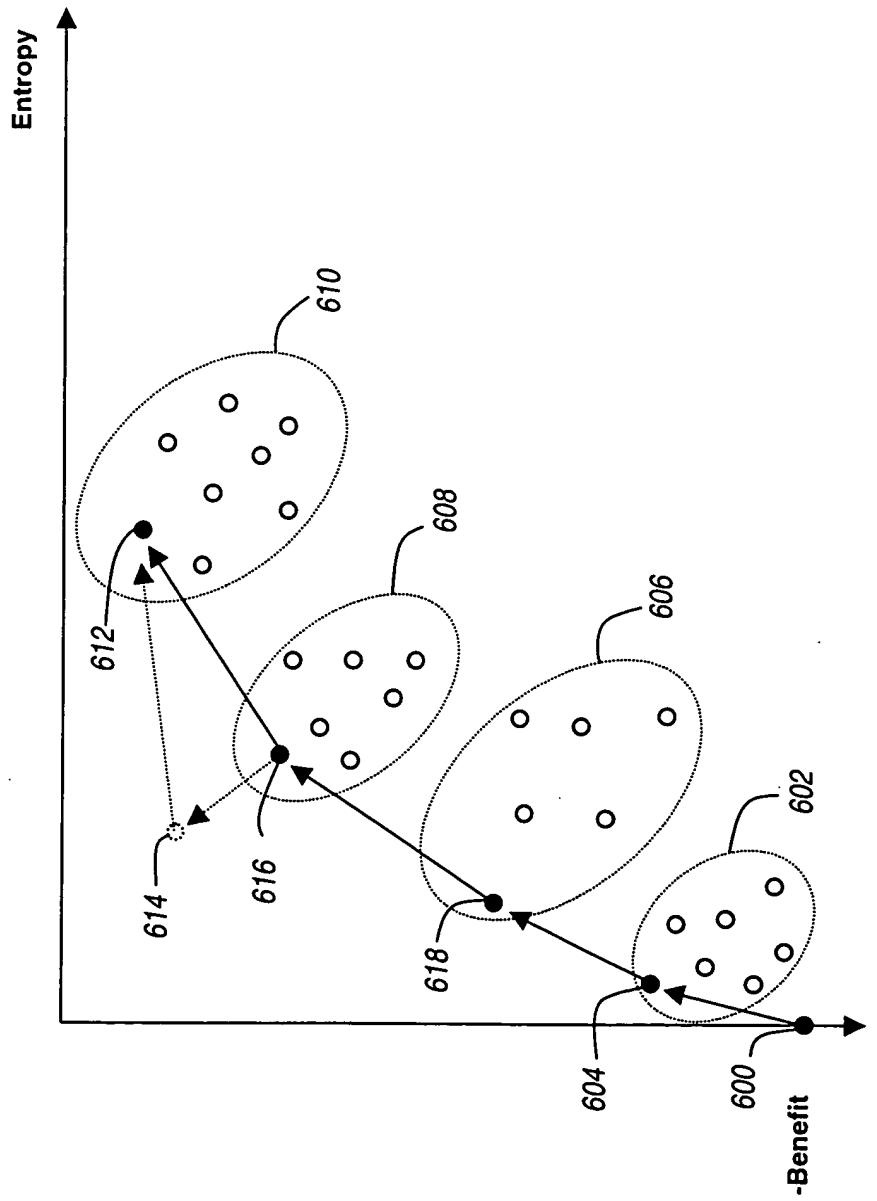


FIG. 6

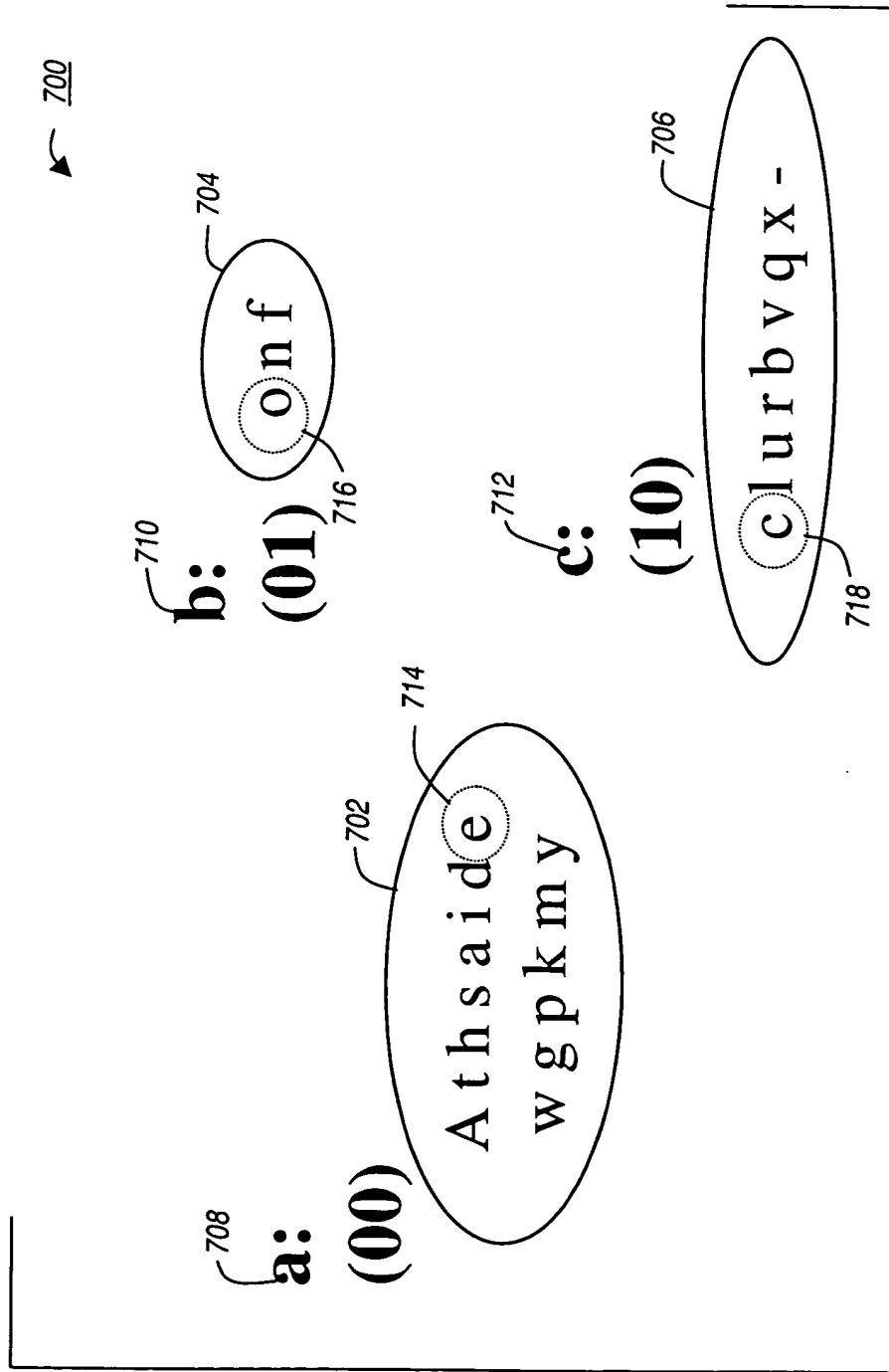


FIG. 7

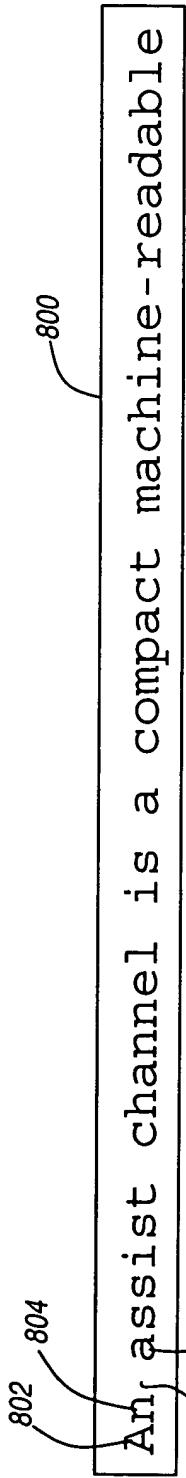


FIG. 8

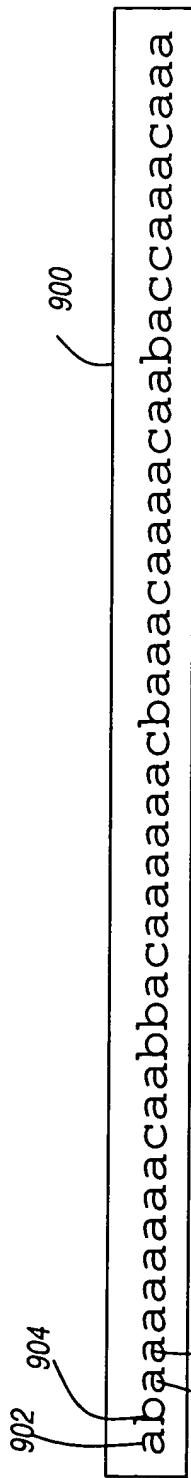


FIG. 9

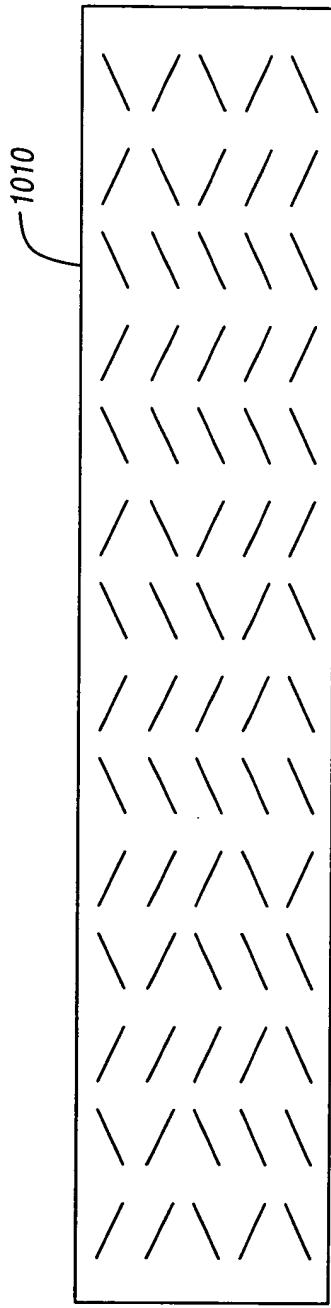


FIG. 10

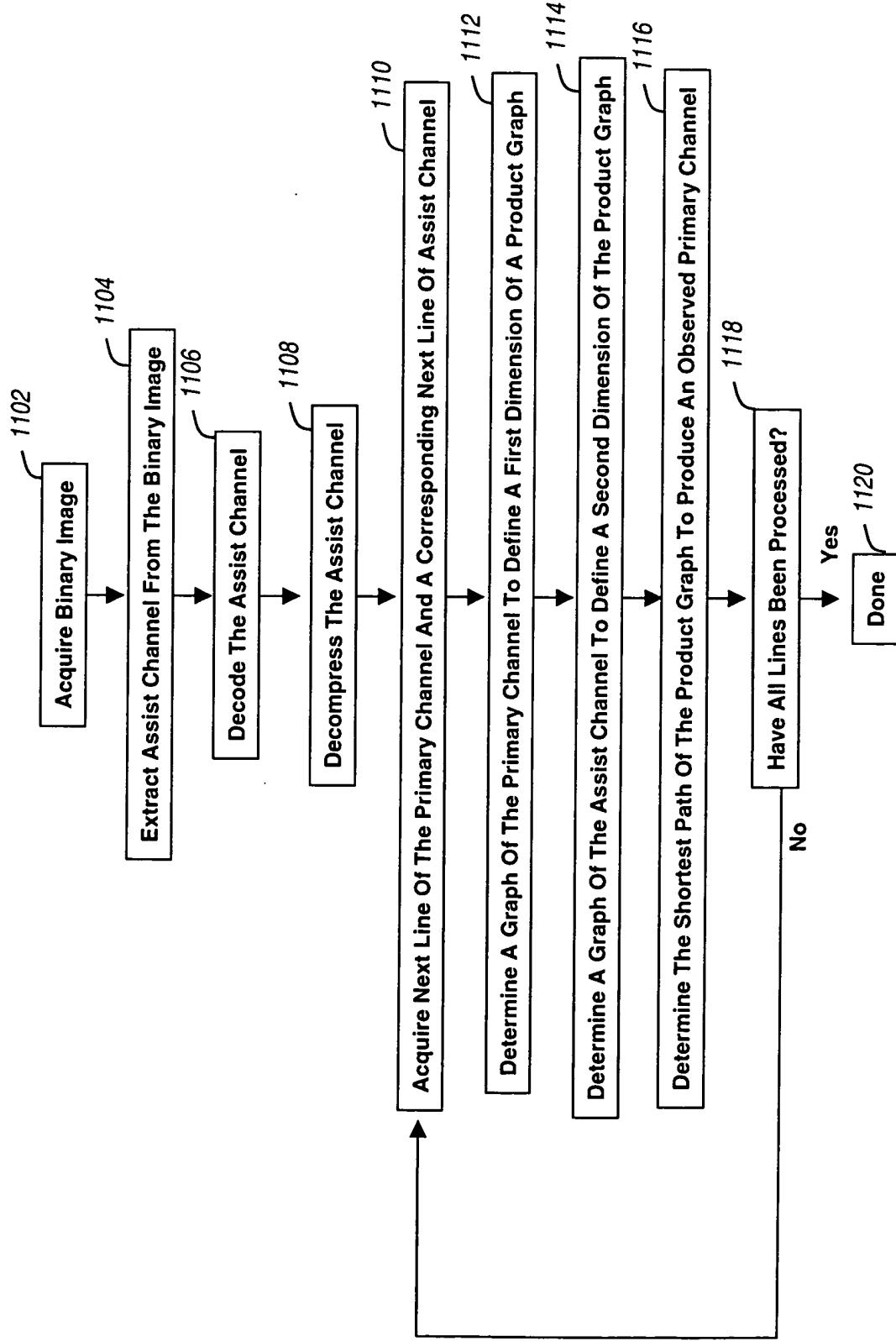


FIG. 11

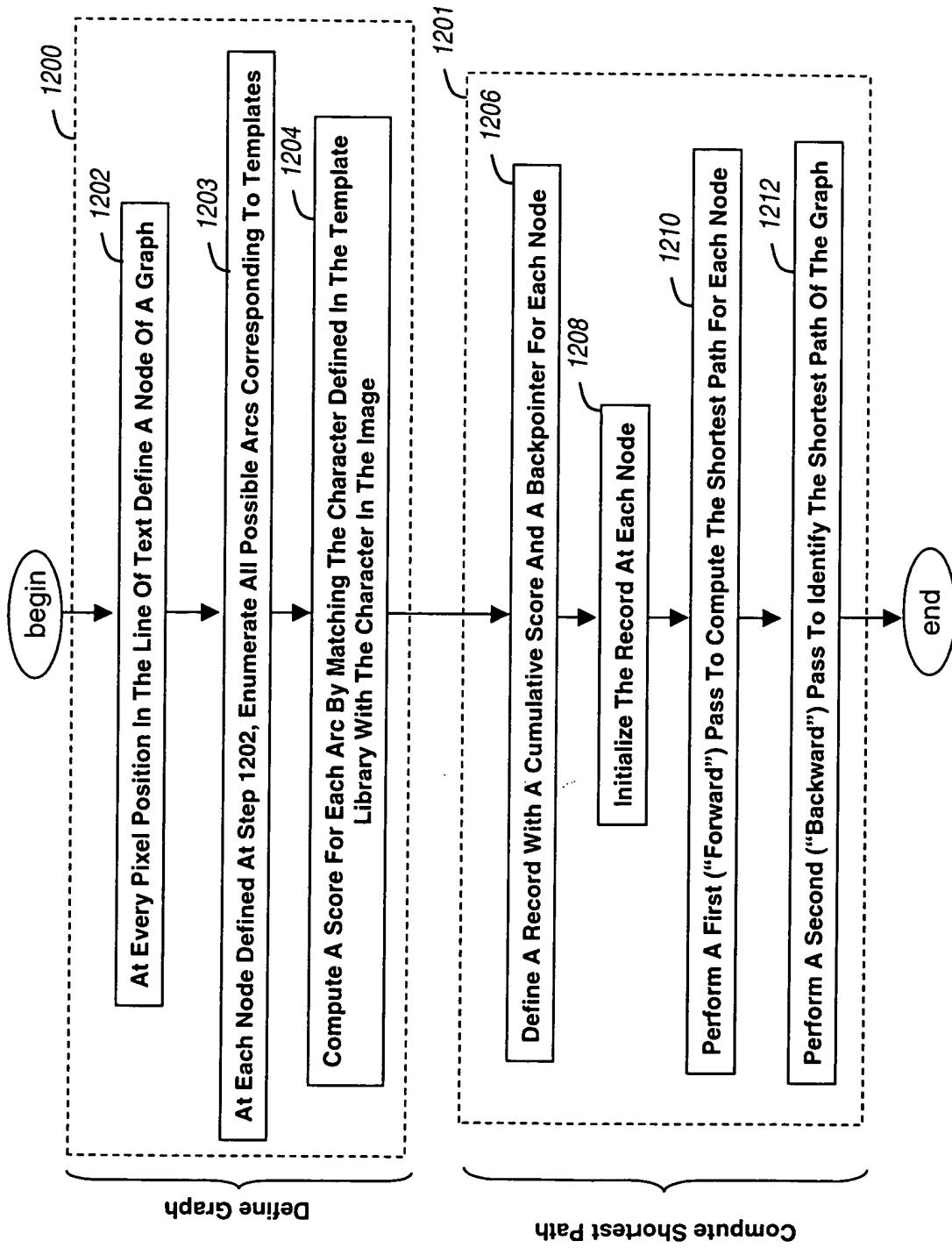


FIG. 12

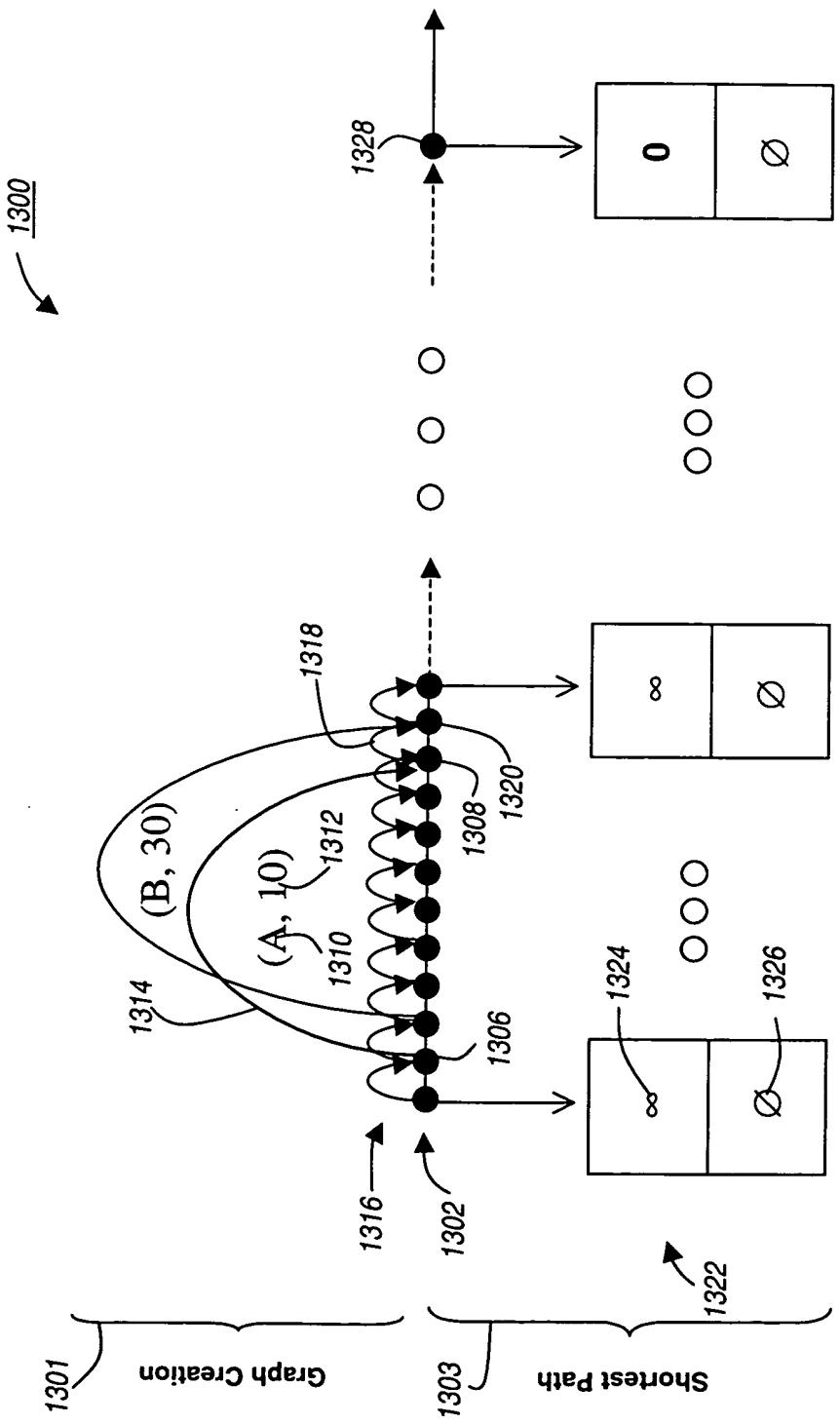
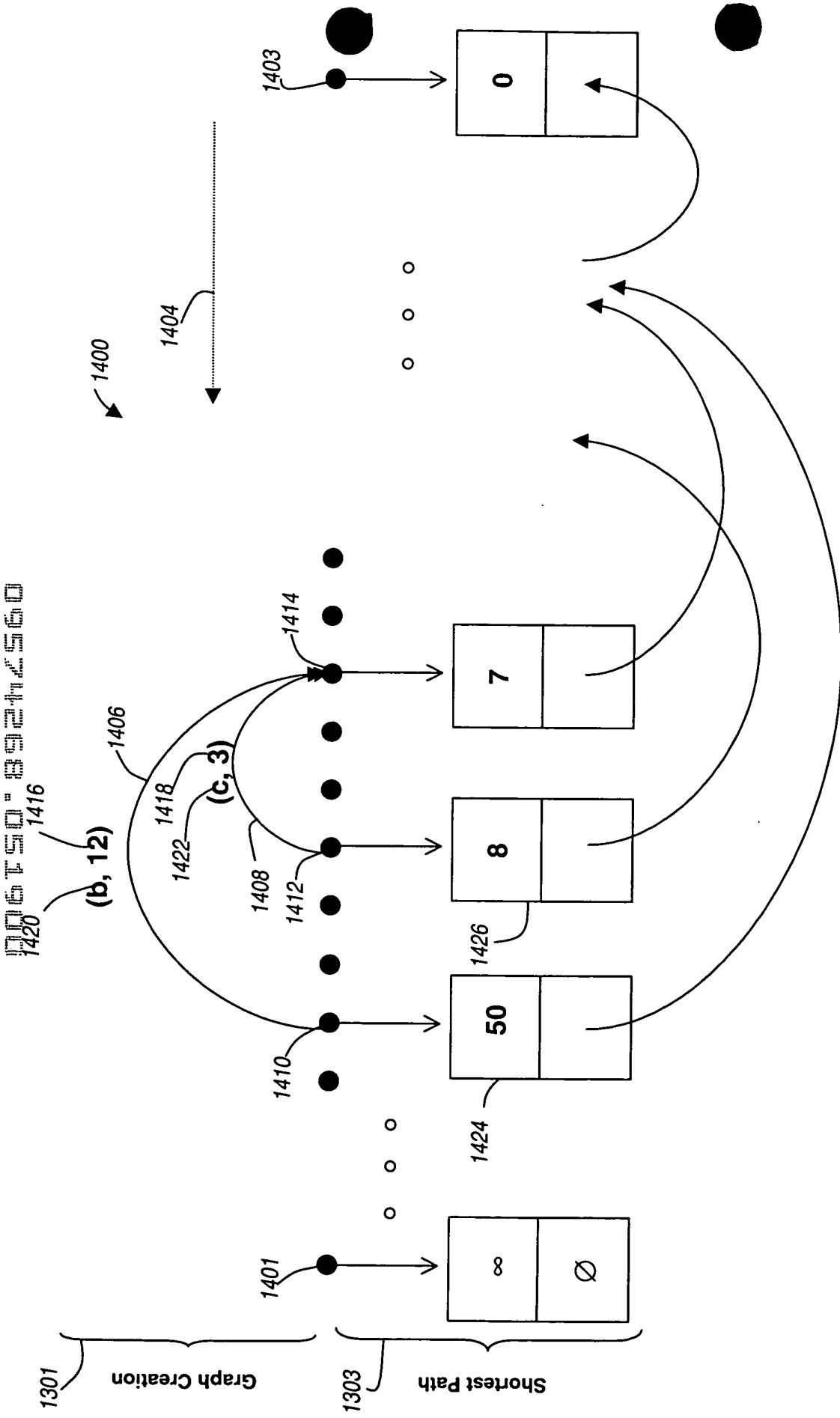


FIG. 13

FIG. 14



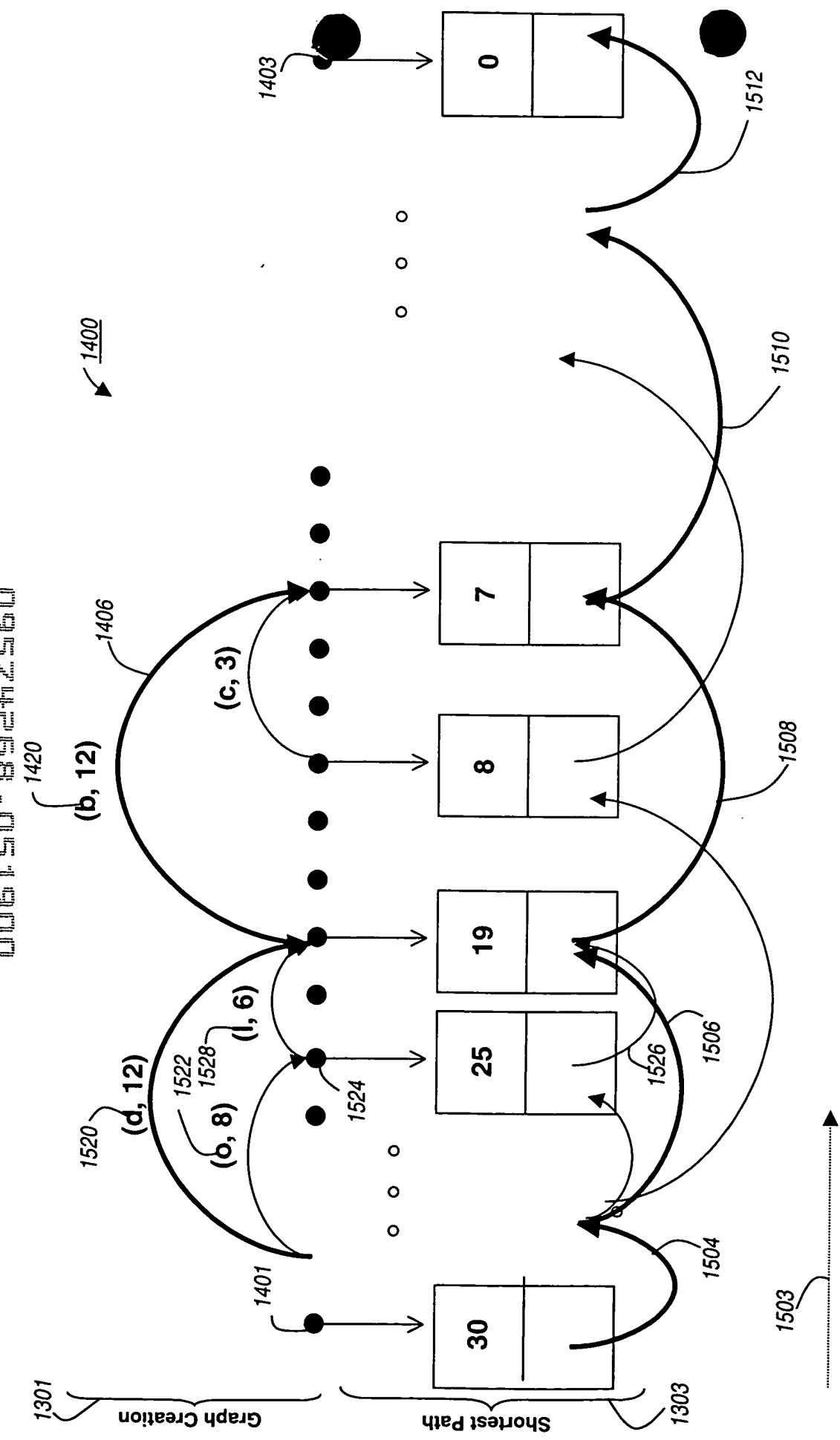
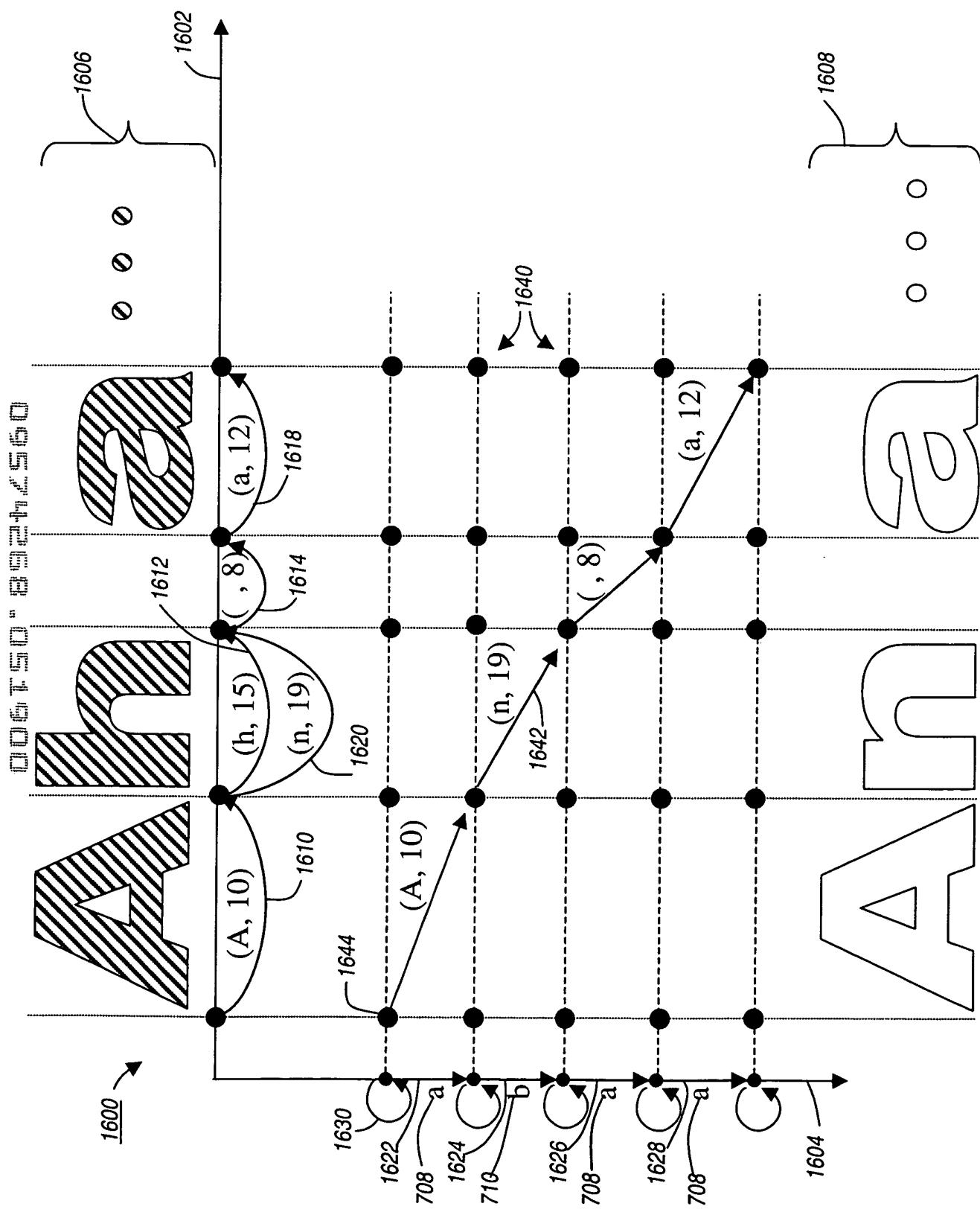


FIG. 15

FIG. 16



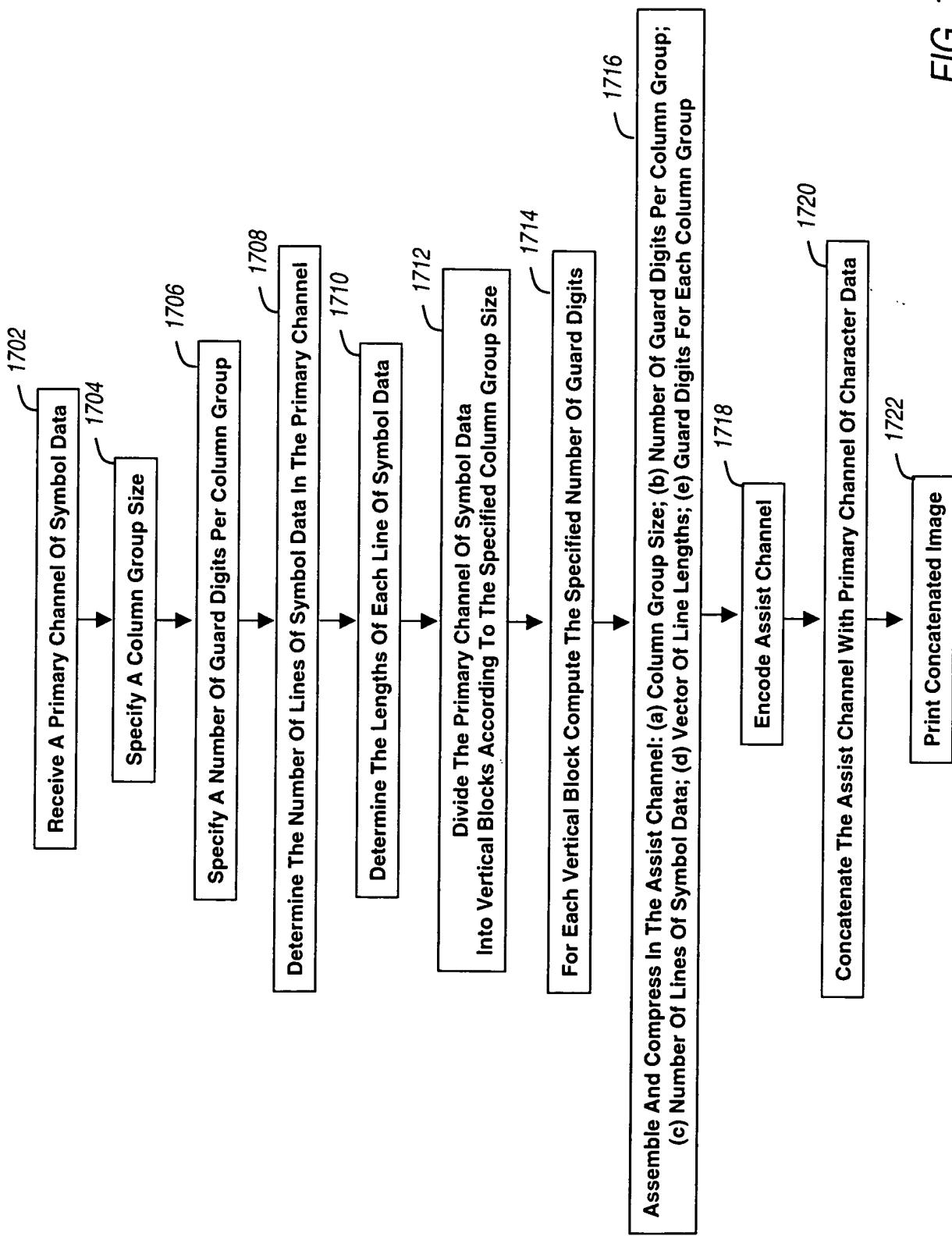


FIG. 17

This is the first line of text
followed by many more lines of text.

FIG. 18

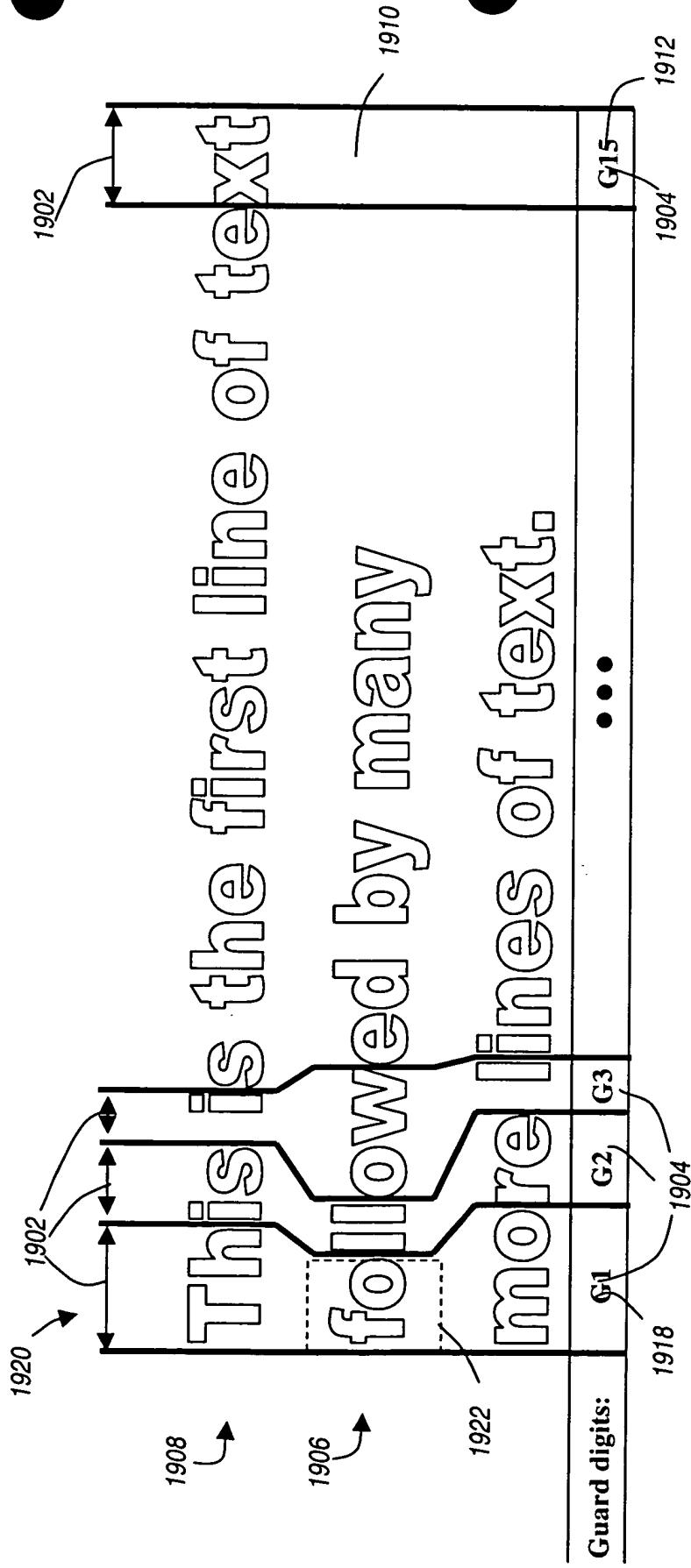


FIG. 19

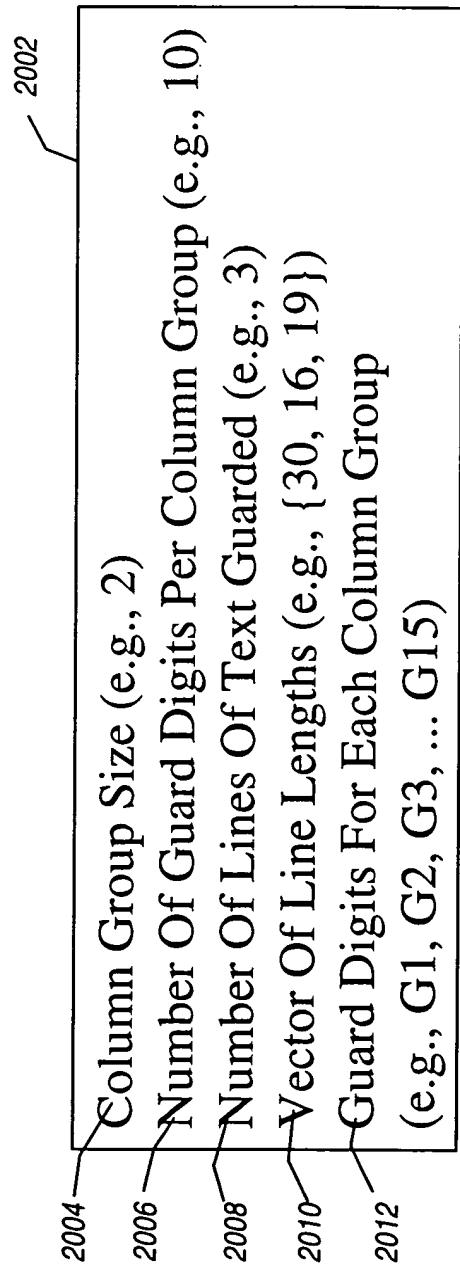
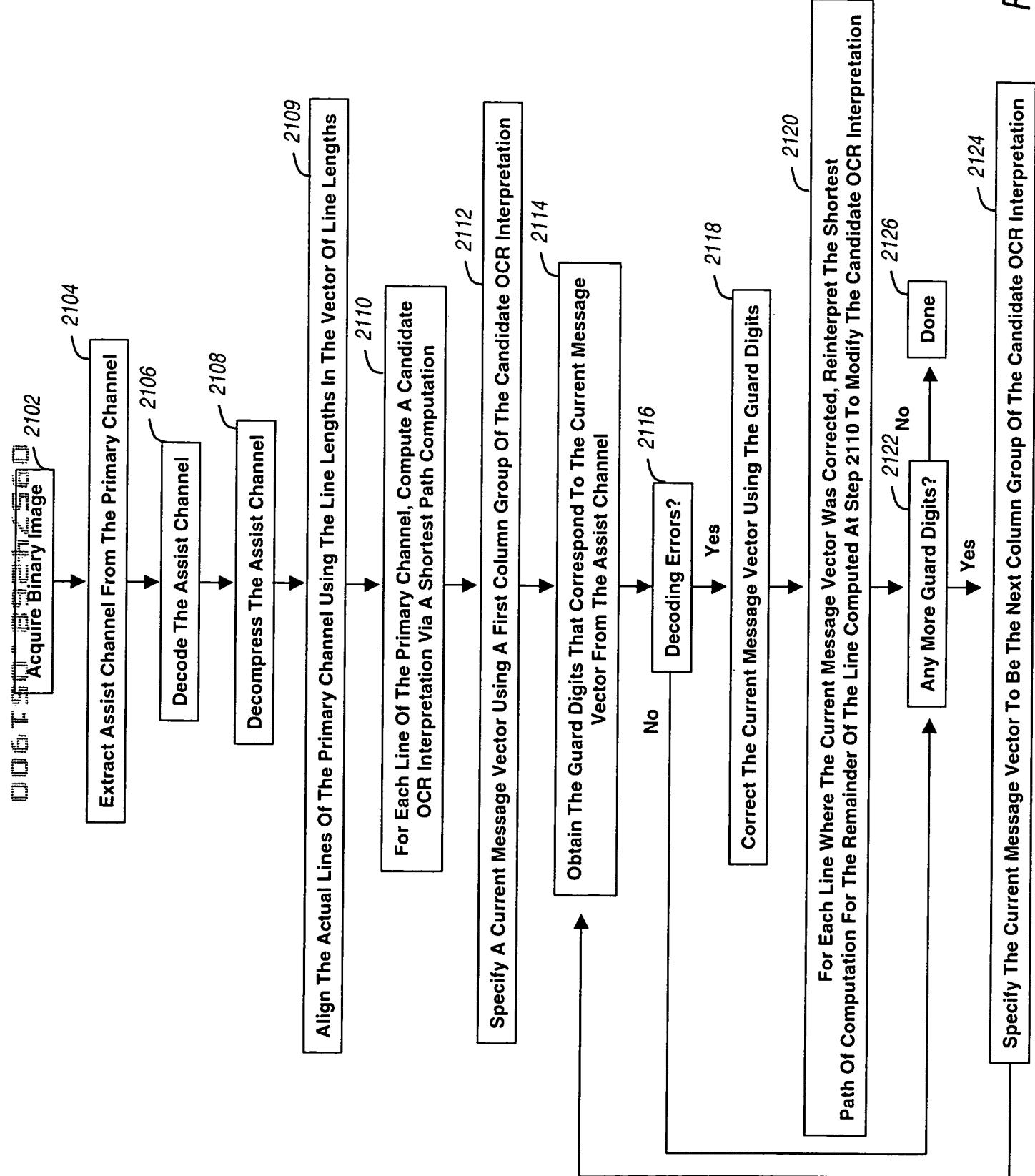


FIG. 20



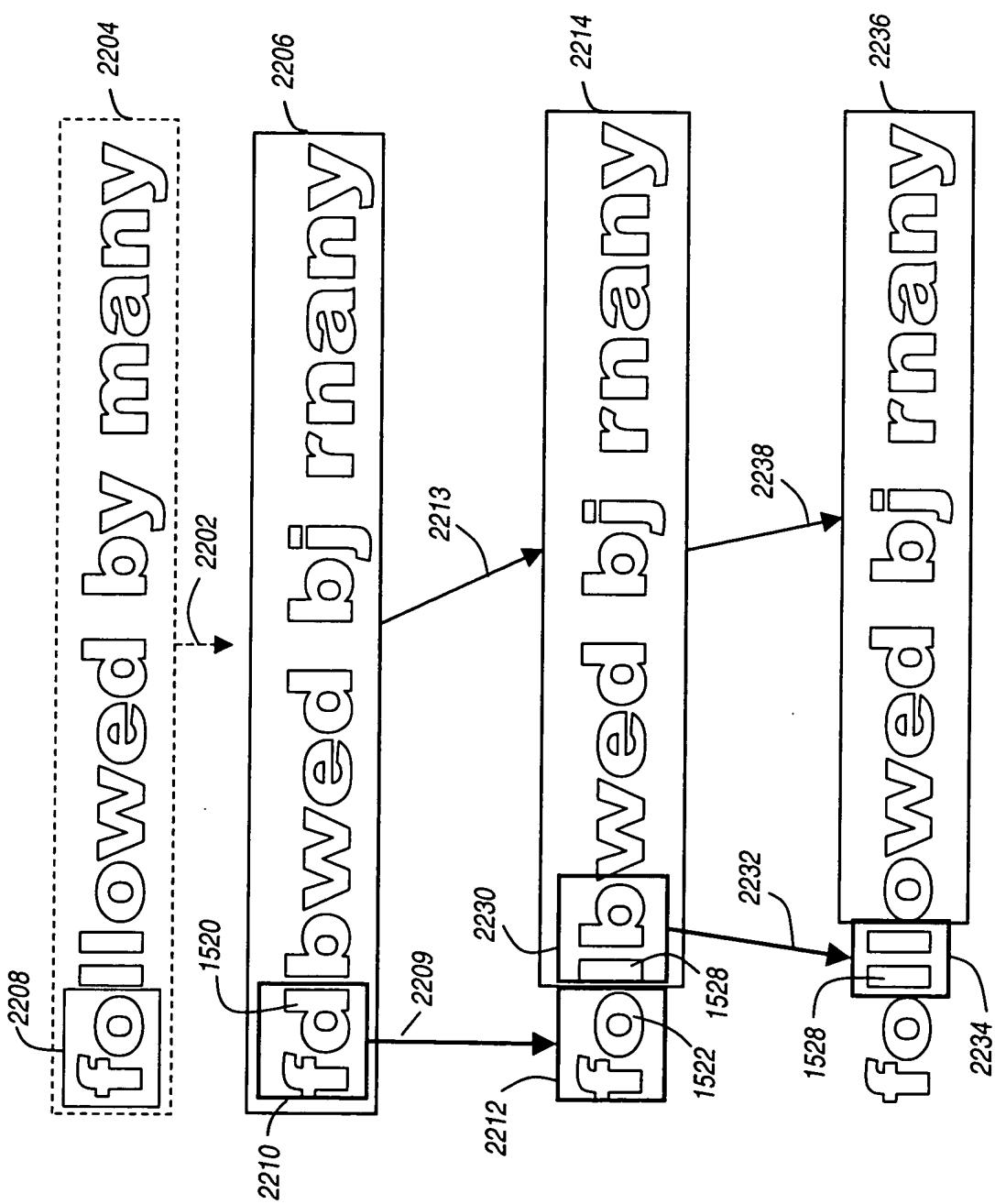
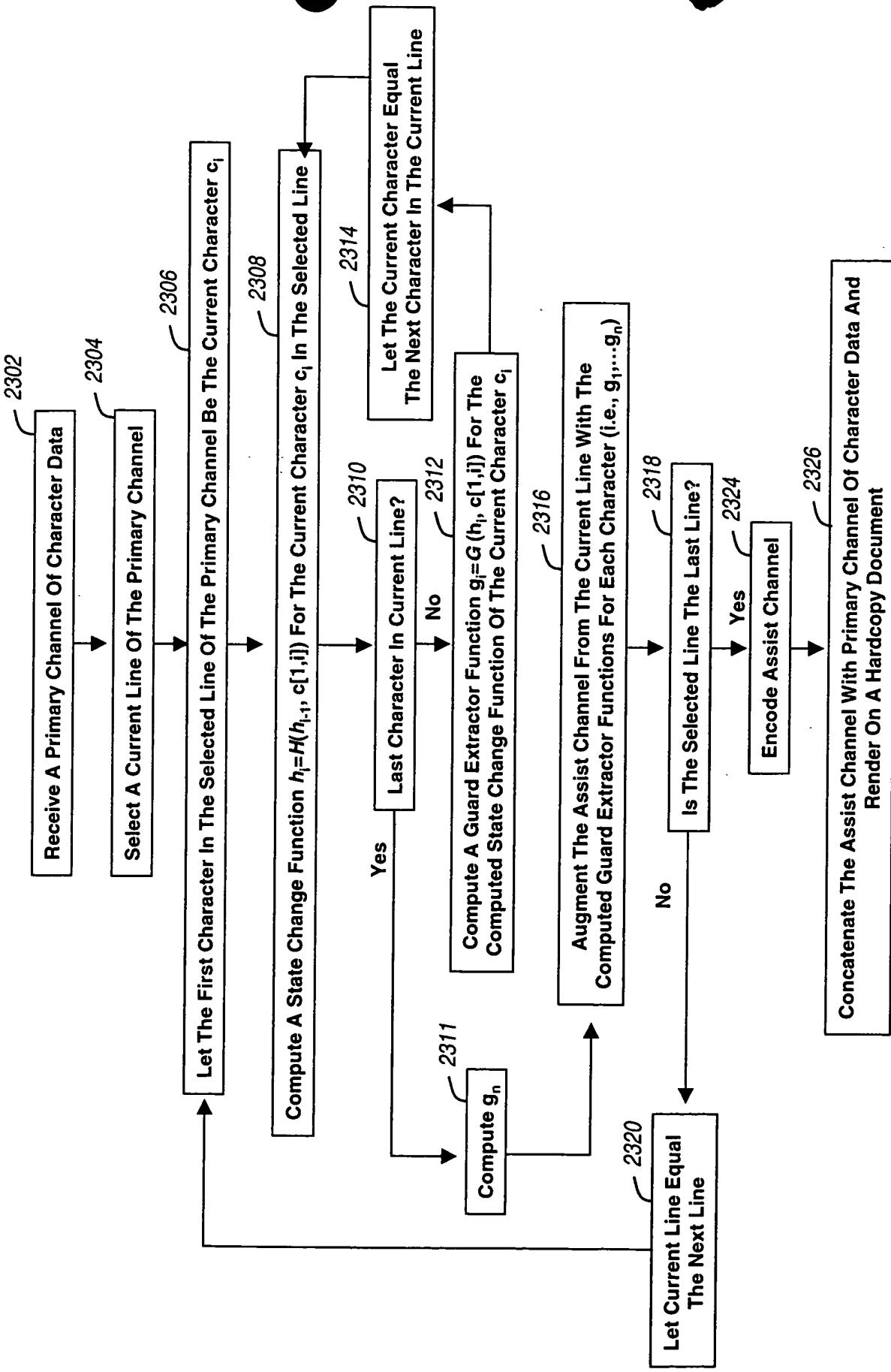


FIG. 22



T
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 S

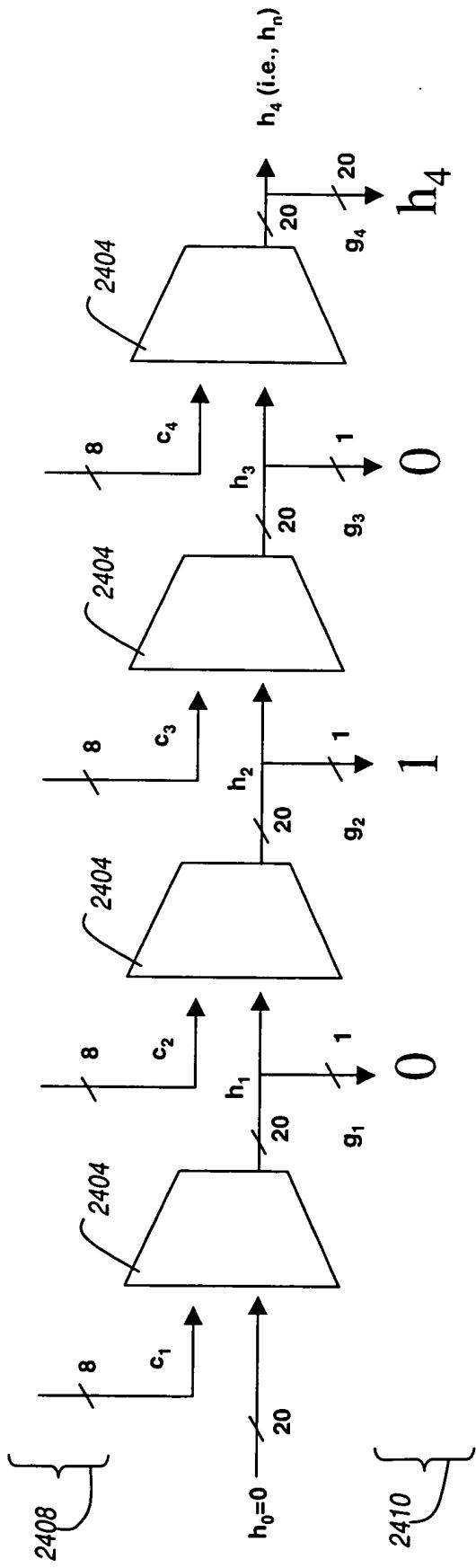


FIG. 24

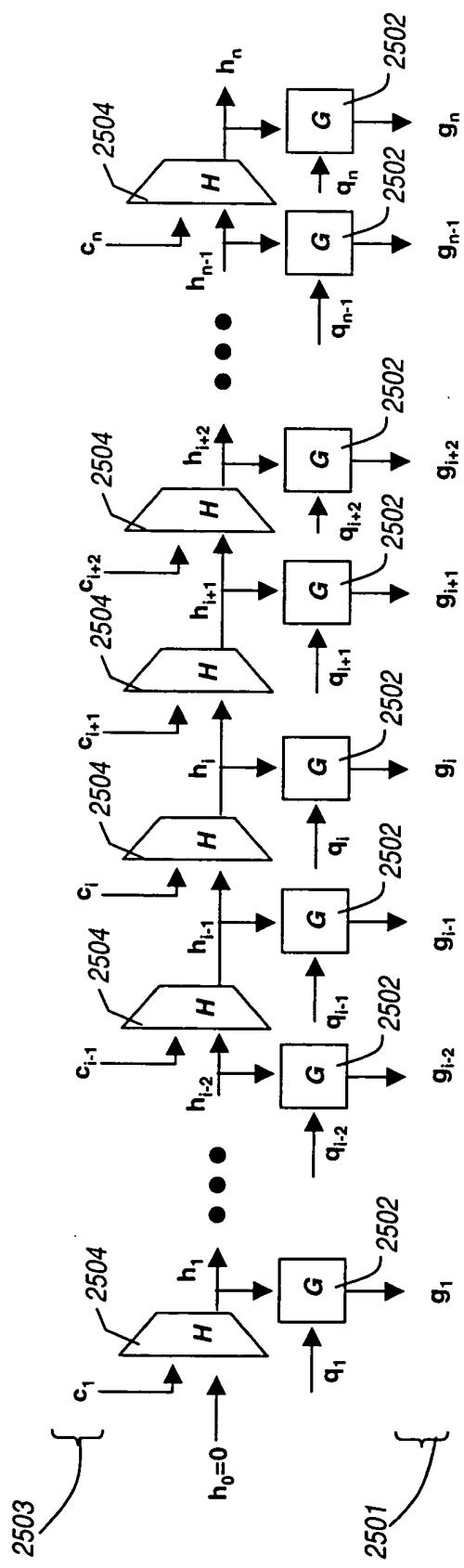


FIG. 25

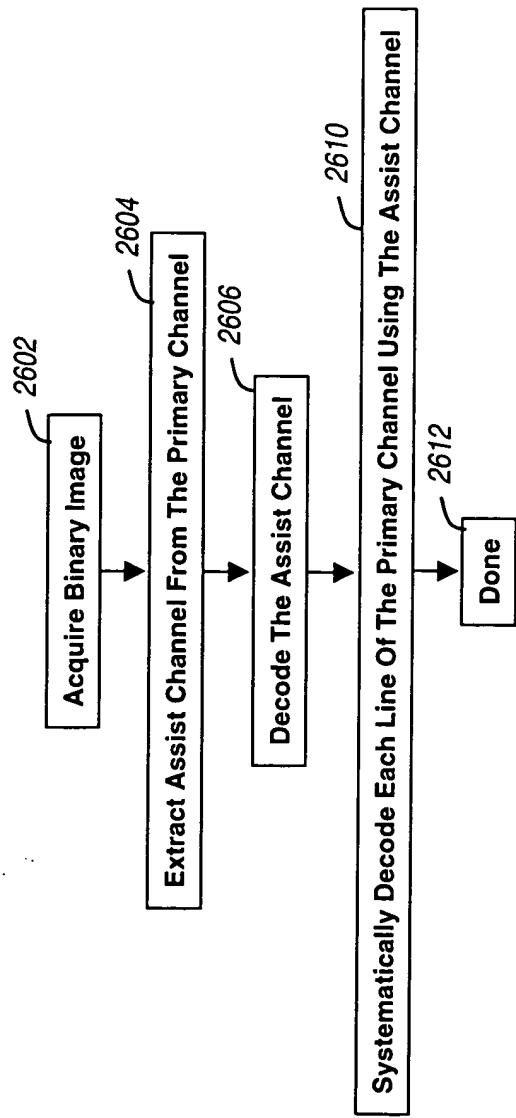


FIG. 26

2608

Initialize A Priority Queue With
An Empty Candidate $C_0 = (c' = \emptyset, h' = 0, s' = 0, k' = 0)$
For The Current Line Of The Primary Channel

2610

Remove From The Priority Queue The Candidate With The Best Score
And Define It To Be The Current Candidate " C_{best} ", Where
 C_{best} 's Interpretation of the Prefix of the Line Is $c' = c'_1 c'_2 c'_3 \dots c'_{i-1}$;
Let h'_{i-1} Be the Current Hash, Let s'_{i-1} Be the Current Score,
And Let k'_{i-1} Be the Location Of The First Unmatched Guard Digit In The Assist Channel

2704

Identify All Extension Characters c'_i Of The Current Candidate C_{best} And For Each Possible Extension Character
Score Against It The Remaining Portion Of The Current Line Of The Primary Channel, Obtaining A New Score $s'_i = s'_{i-1} + S(c'_i)$.

2708

Compute Values For The State Change Function $h'_i = H(h'_{i-1}, c'[1:i])$ And The Guard Extractor Function
 $g'_i = G(h'_i, c'[1:i])$ For Each Of The Identified Extension Characters c'_i

2710

Add To The Priority Queue Candidates $C_{next} = (c' = c'_1 c'_2 c'_3 \dots c'_{i-1}, h'_i, s'_i, k'_i)$
For All Identified Extension Characters c'_i That Have A Computed Guard Value
 g'_i That Equals The Guard Value In The Assist Channel (i.e., g_i) Beginning At Position k'_i

2712

No

2714

End of Line? (i.e., Does $g'_i = g_n$?)

Yes

2716

Advance To Next Line Spacing
2718

No
2716

Yes
2716

Yes
2612

Done

FIG. 27

095342628 0951900

• i h T

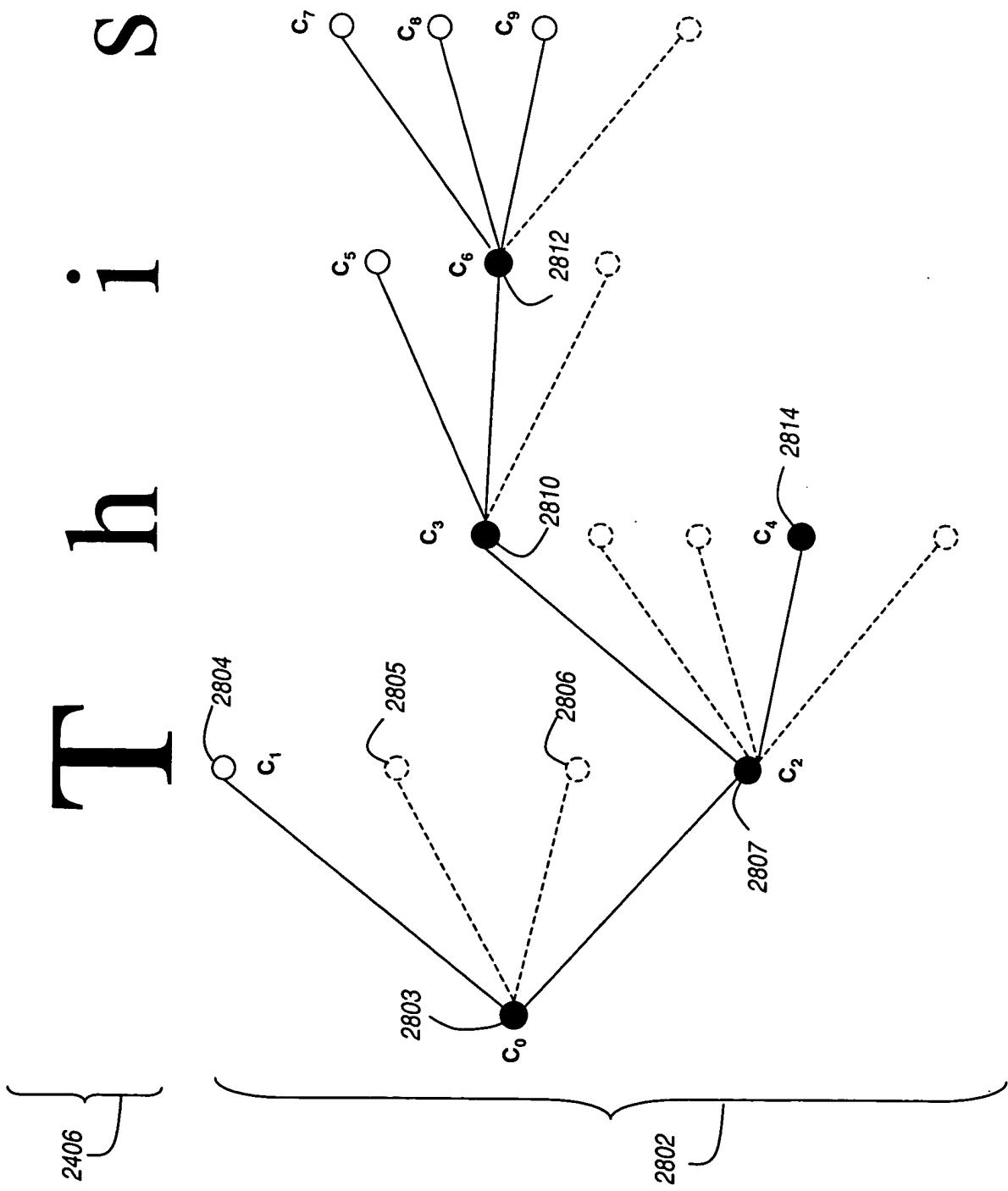


FIG. 28

2503

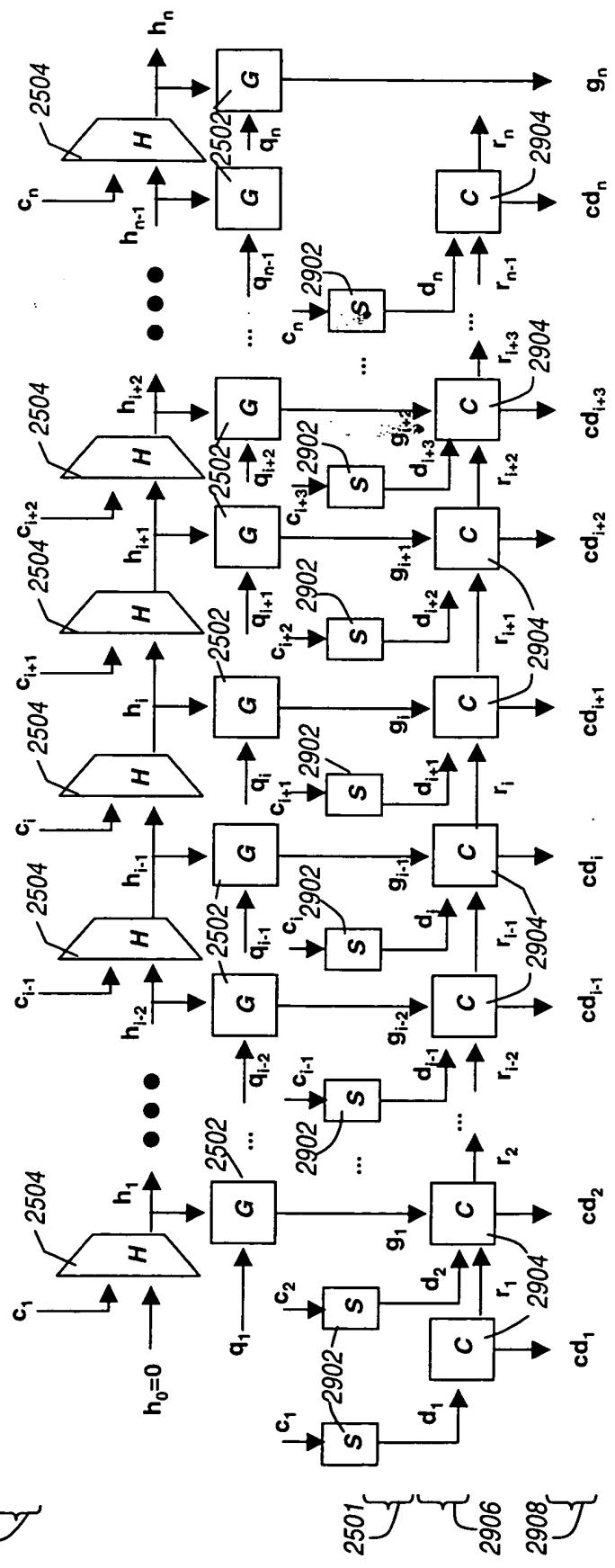


FIG. 29

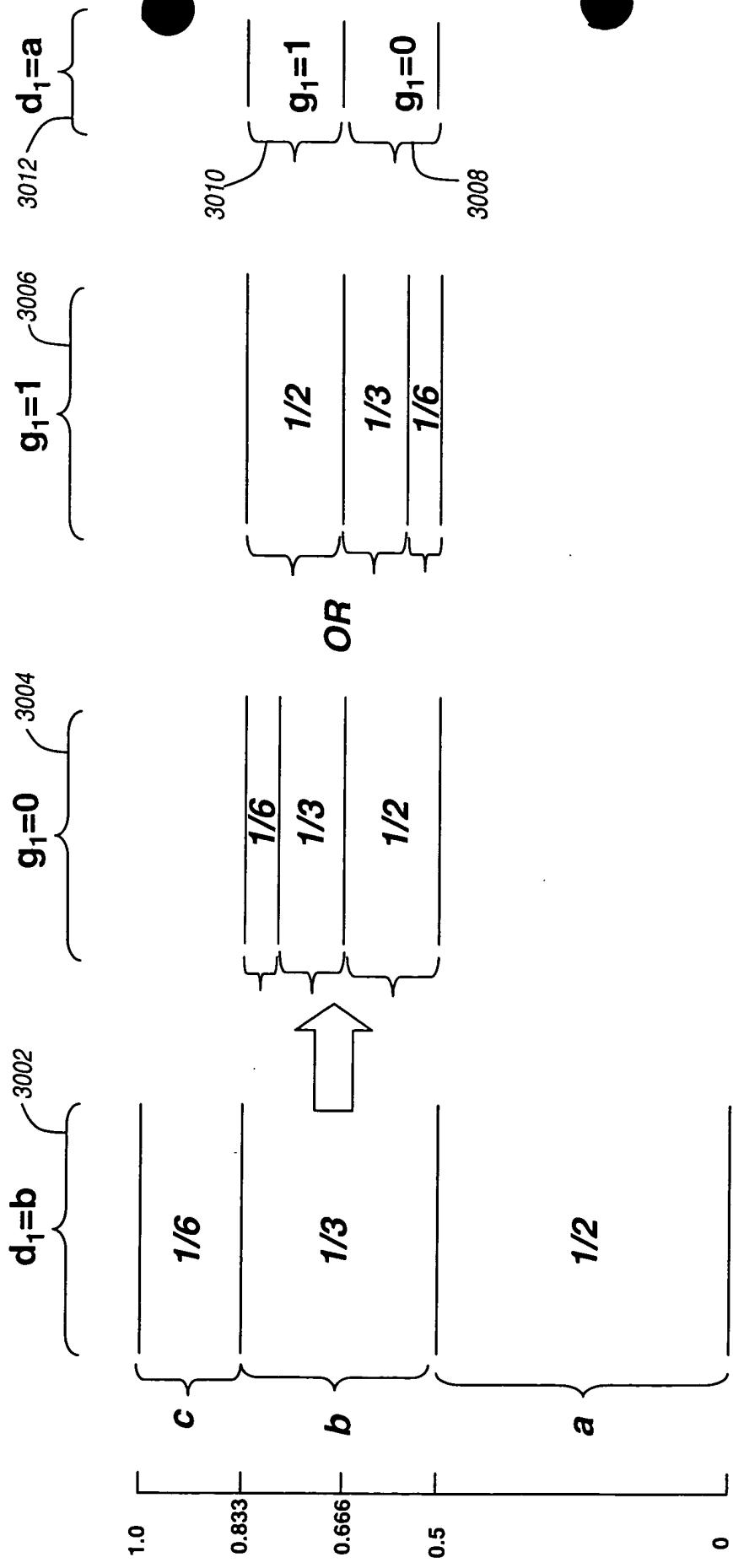


FIG. 30

2608

Initialize A Priority Queue With
An Empty Candidate $C_0 = (c' = \emptyset, h' = 0, r' = 0, s' = 0)$
For The Current Line Of The Primary Channel

3102

Remove From The Priority Queue The Candidate With The Best Score And Define It To Be The Current Candidate " C_{best} ",
Where C_{best} 's Interpretation of the Prefix of the Line Is $c' = c'_1 c'_2 c'_3 \dots c'_{i-1}$;
Let h_{i-1} ' Be the Current Hash, Let s_{i-1} ' Be the Current Score, And Let r_{i-1} ' Be The Current State Of The Compressor

3104

Using r_{i-1} ', g_{i-1} ', and cd_i Decompress d_i From The Assist Channel (d_i Is The Separation Class For The Next Character), And Compute r'_i
Identify All Extension Characters c'_i Of C_{best} , Where c'_i Is In The Separation Class d'_i , And For Each Possible Extension Character
Score It Against The Remaining Portion Of The Current Line Of The Primary Channel, Obtaining A New Score $s'_i = s_{i-1} + S(c'_i)$

3106

Compute Values For The State Change Function $h'_i = H(h_{i-1}, c'[1:i])$ And The Guard Extractor Function
 $g'_i = G(h'_i, c[1:i])$ For Each Of The Identified Extension Characters c'_i

3108

Add To The Priority Queue Candidates $C_{next} = (c' = c'_1 c'_2 c'_3 \dots c'_i, h'_i, r'_i, s'_i)$ For All Identified Extension Characters c'_i

3112

End of Line? (i.e., Does $g'_i = g_n$?)
No → 3114
Yes → 3116

3118
Advance To Next Line Spacing

3114

No

Yes

3116

All Lines Processed?

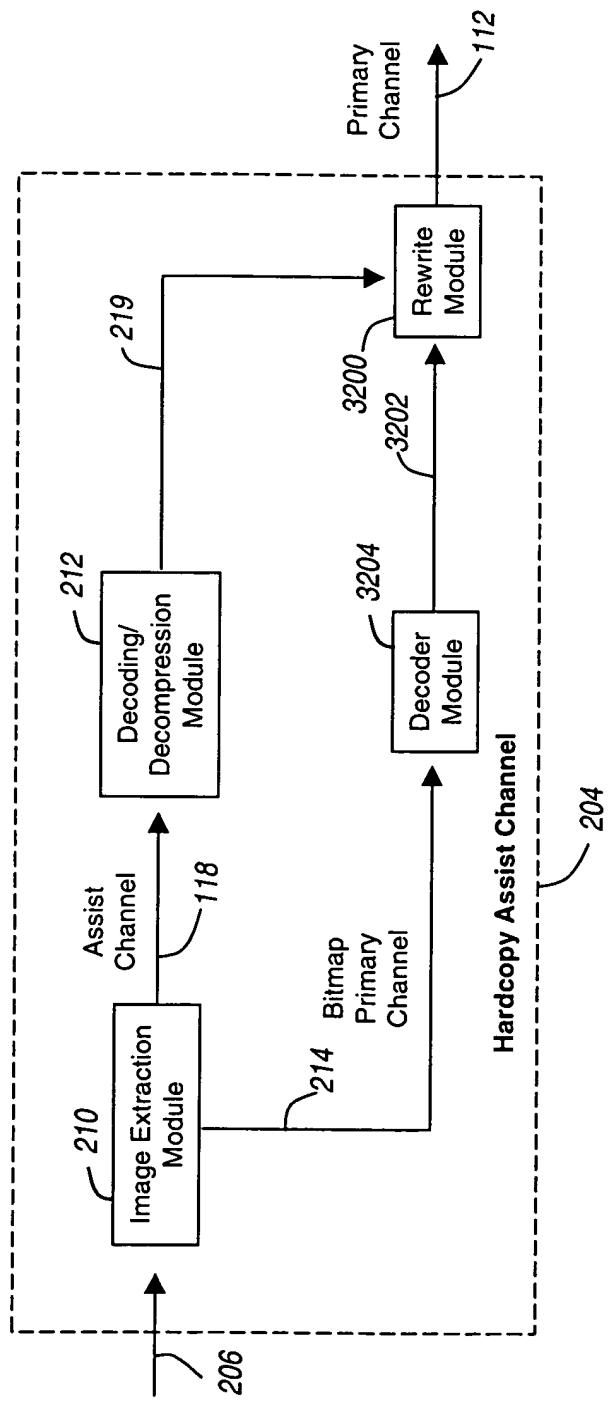
Yes

2612

Done

FIG. 31

FIG. 32



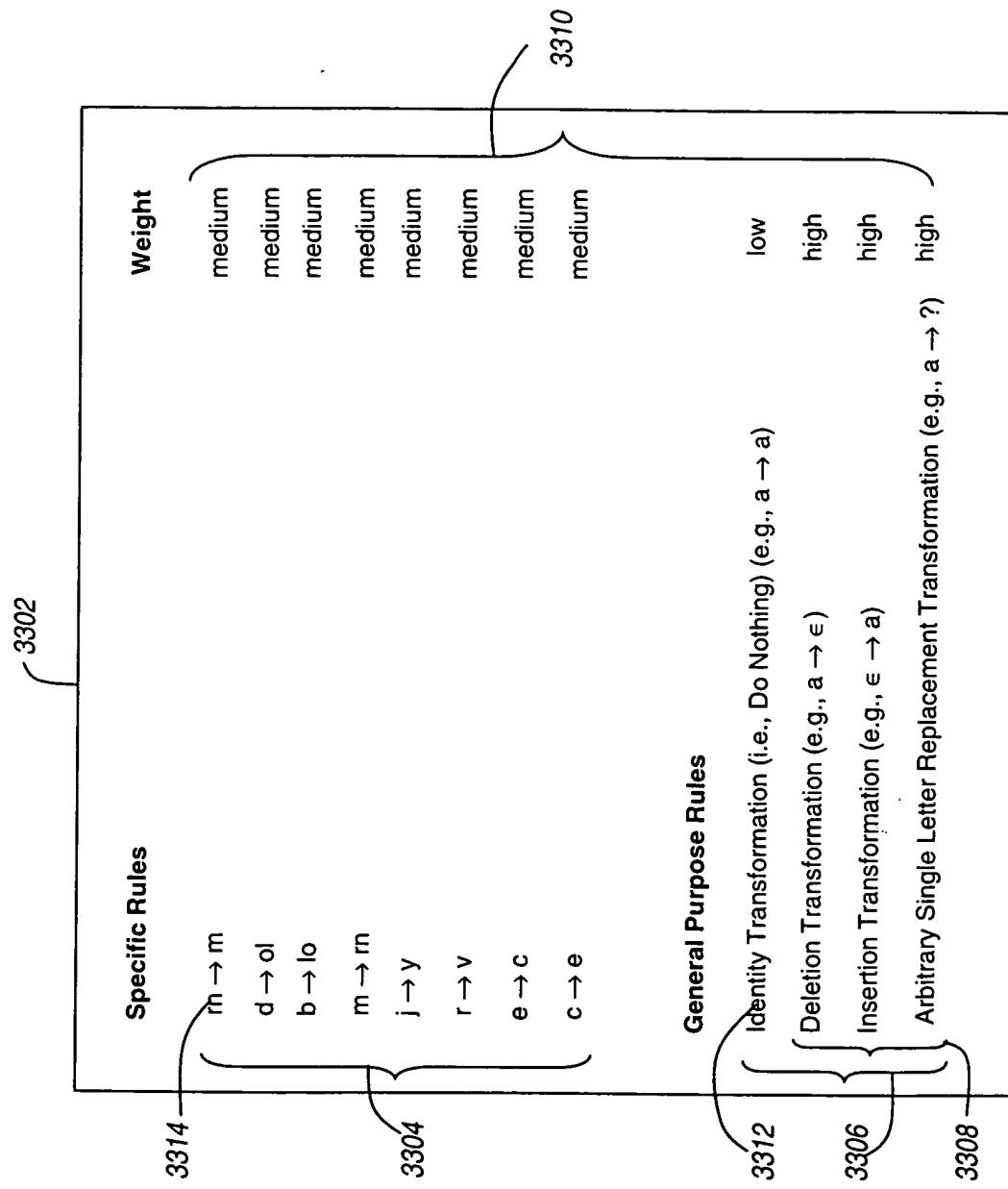


FIG. 33

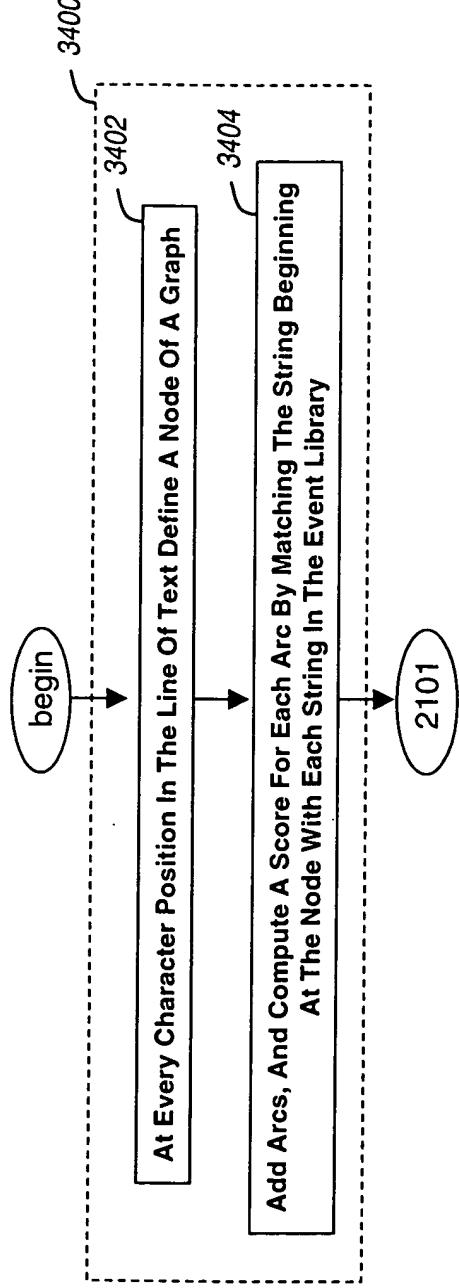
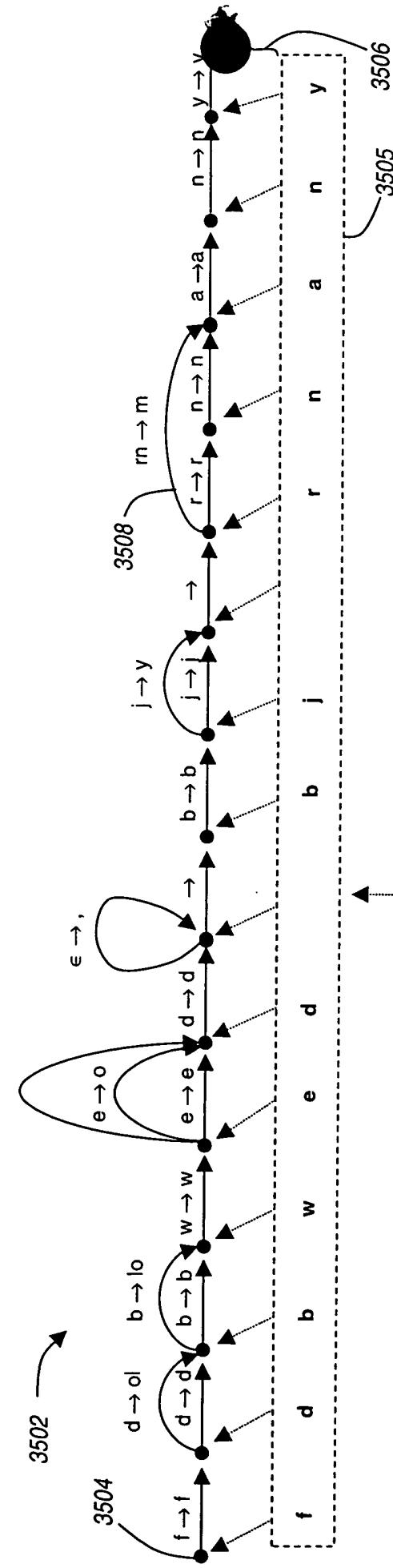


FIG. 34



followed by many

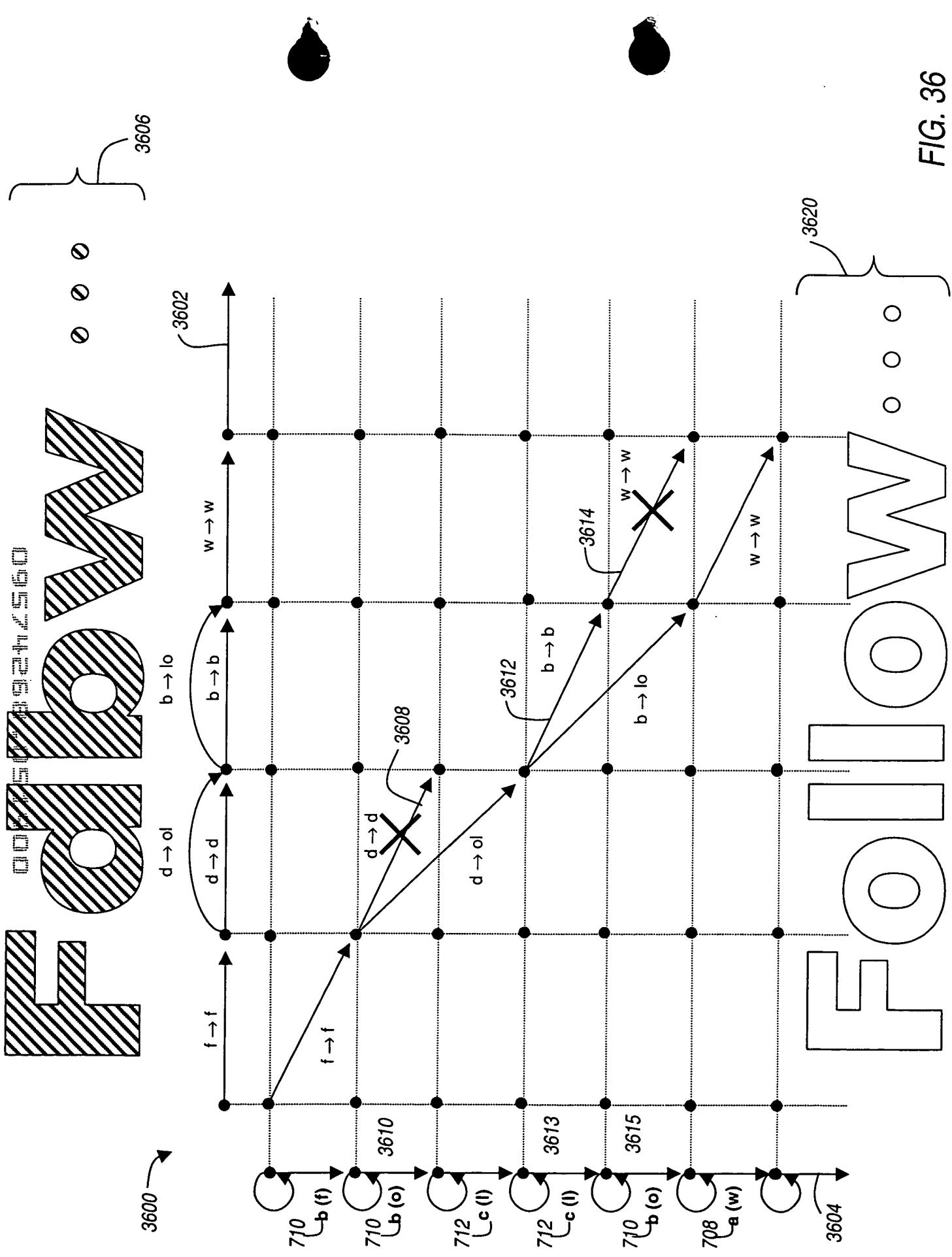


FIG. 36